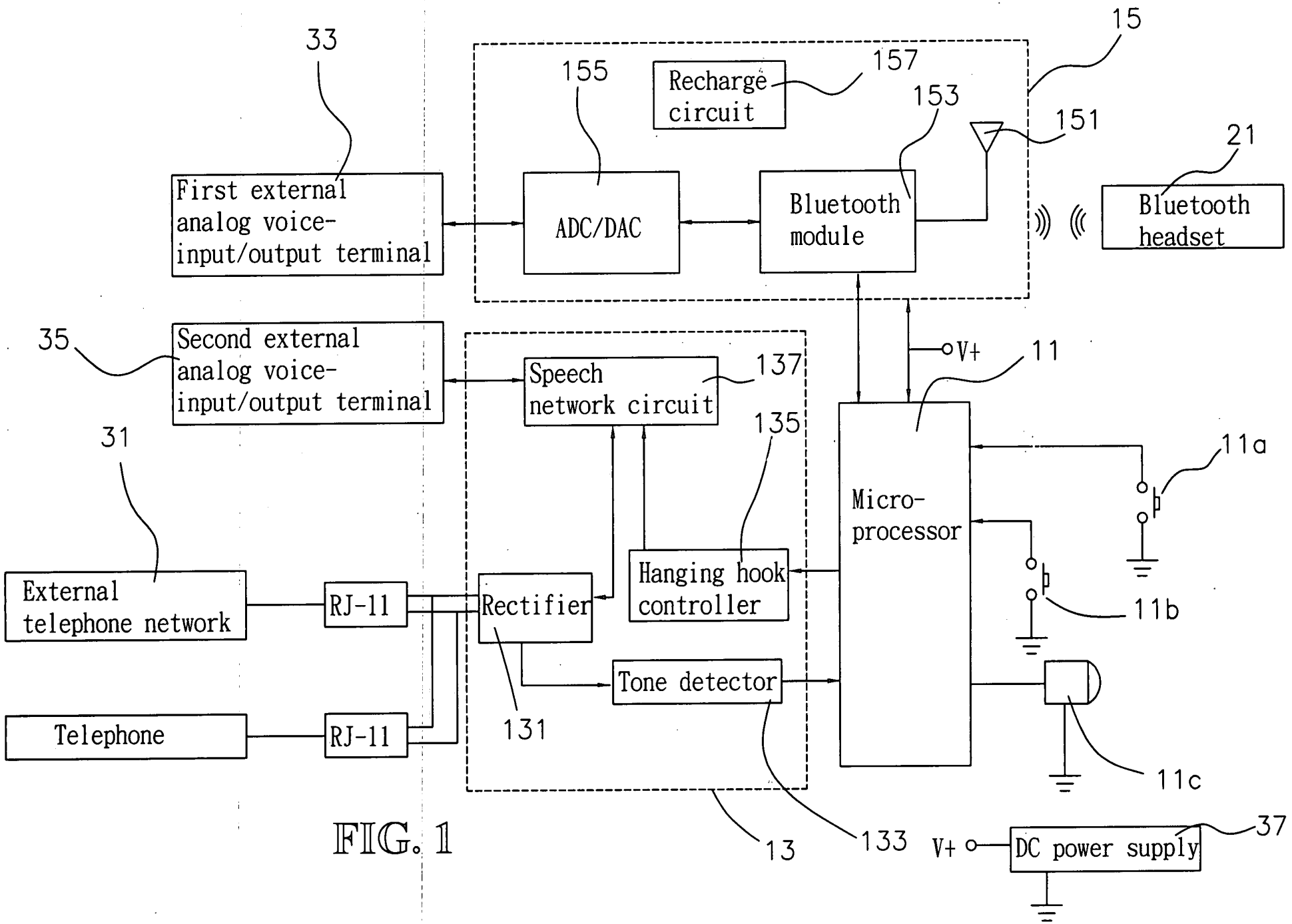
15
33
155
Recharge circuit
157
153
151
21
First external analog voice-input/output terminal
ADC/DAC
Bluetooth module
Bluetooth headset
35
Second external analog voice-input/output terminal
Speech network circuit
137
V+
11
135
31
Micro-processor
11a
External telephone network
RJ-11
Rectifier
Hanging hook controller
11b
Tone detector
Telephone
RJ-11
131
11c
13
133
V+
DC power supply
37

FIG. 1

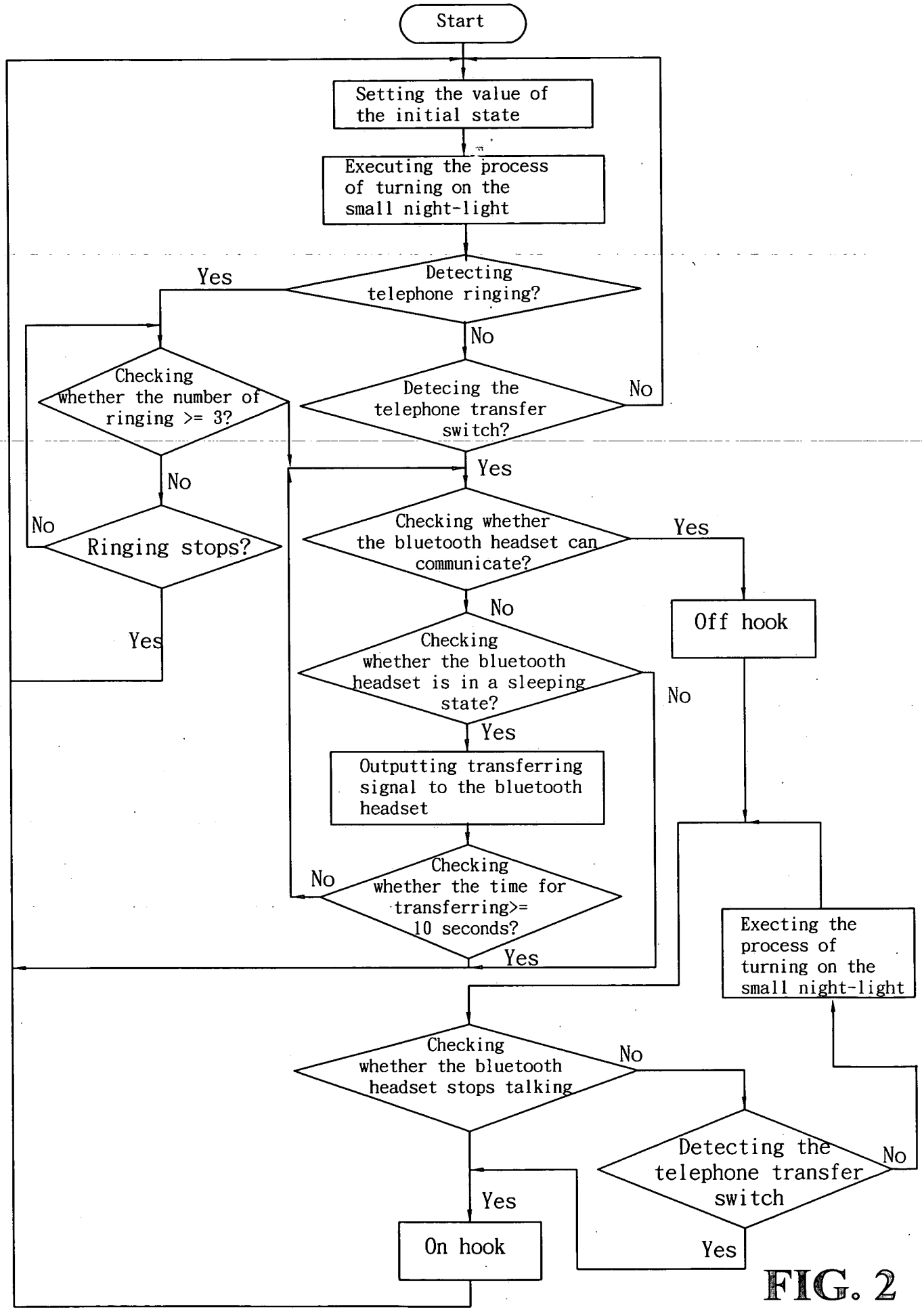
Start
Setting the value of the initial state
Executing the process of turning on the small night-light
Detecting telephone ringing?
Yes
No
Checking whether the number of ringing >= 3?
No
Ringing stops?
No
Yes
Detecing the telephone transfer switch?
No
Yes
Checking whether the bluetooth headset can communicate?
Yes
No
Off hook
Checking whether the bluetooth headset is in a sleeping state?
No
Yes
Outputting transferring signal to the bluetooth headset
Checking whether the time for transferring>= 10 seconds?
No
Yes
Execting the process of turning on the small night-light
Checking whether the bluetooth headset stops talking
No
Detecting the telephone transfer switch
No
Yes
Yes
On hook

FIG. 2

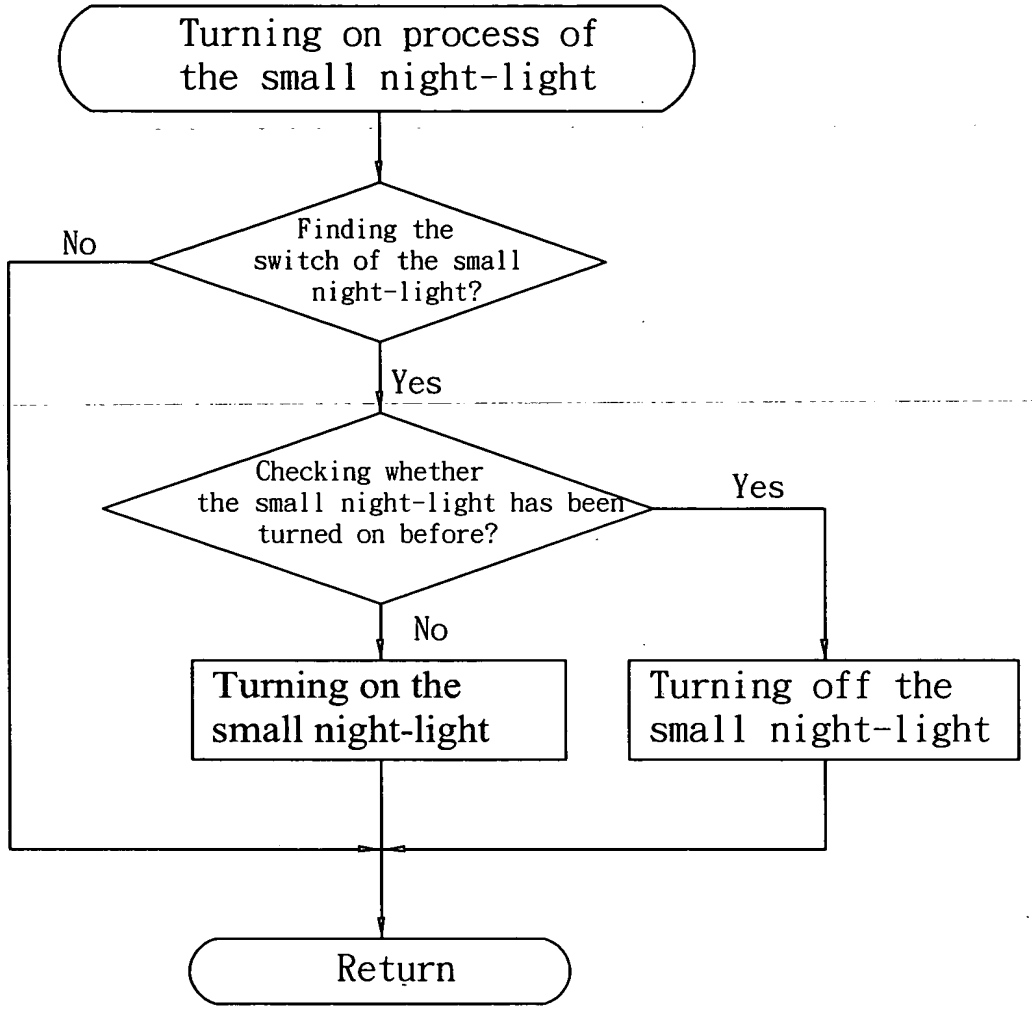
Turning on process of the small night-light
Finding the switch of the small night-light?
No
Yes
Checking whether the small night-light has been turned on before?
Yes
No
Turning on the small night-light
Turning off the small night-light
Return

FIG. 3